

Author Index to Volume 60

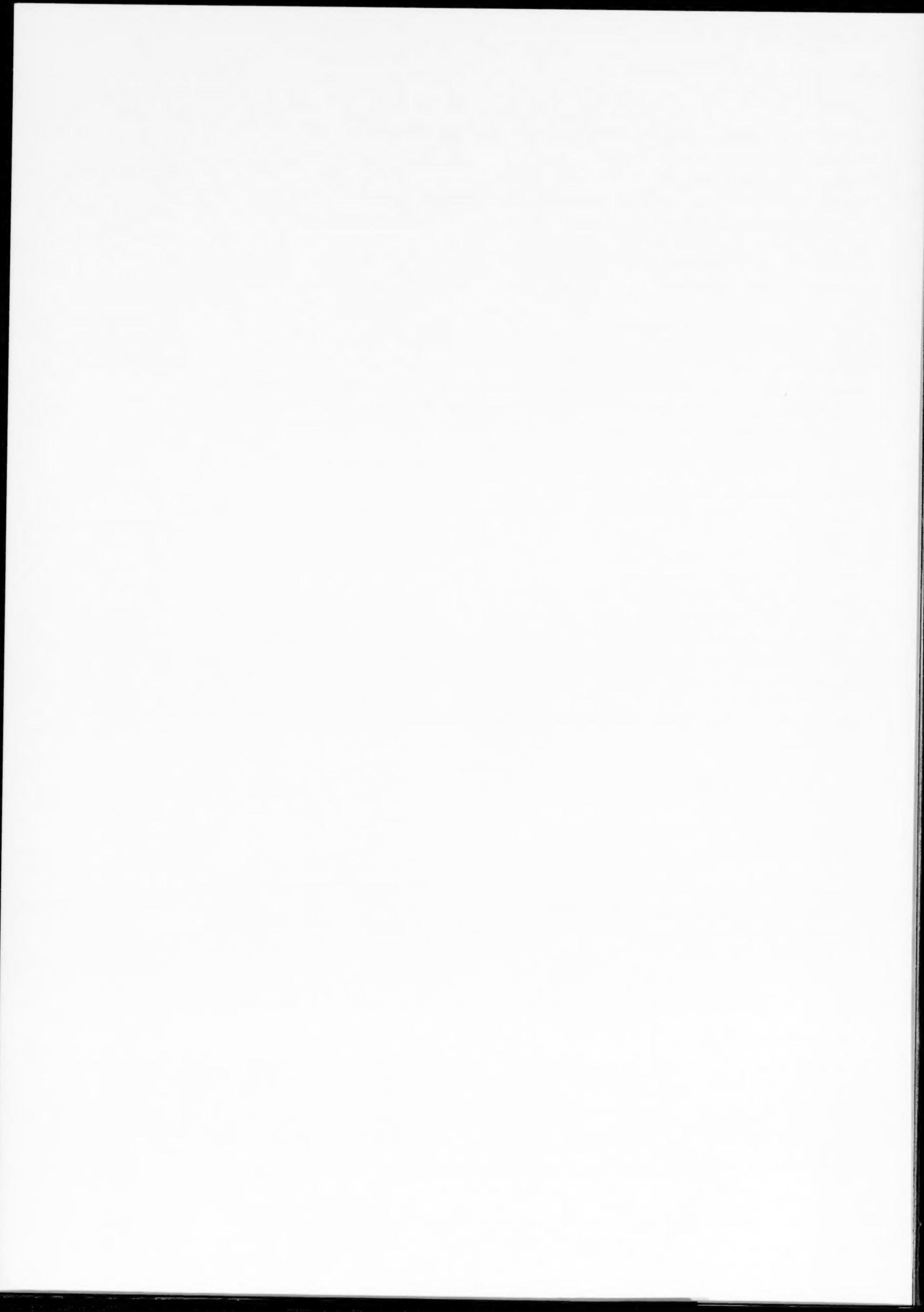
Ahmad, A., see P.G. Komorowski	60 (1993) 335
Ahmad, A., see P.G. Komorowski	60 (1993) 343
Albinsson, I., B.-E. Mellander and J.R. Stevens, Ion association effects and ionic conductivity in polymer electrolytes	60 (1993) 63
Alloin, F., J.-Y. Sanchez and M. Armand, Triblock copolymers and networks incorporating oligo (oxyethylene) chains	60 (1993) 3
Amatucci, G.G., A. Safari, F.K. Shokoohi and B.J. Wilkens, Lithium scandium phosphate-based electrolytes for solid state lithium rechargeable microbatteries	60 (1993) 357
Argyropoulos, S.A., see P.G. Komorowski	60 (1993) 335
Argyropoulos, S.A., see P.G. Komorowski	60 (1993) 343
Armand, M., see F. Alloin	60 (1993) 3
Armand, M., see S. Atchia	60 (1993) 79
Armand, M., see D. Benraba	60 (1993) 87
Armand, M., see A.L. De Oliveira	60 (1993) 99
Atchia, S., D. Deroo, J.P. Petit, M. Armand and N. Rosman, Stability of thin layer electrode-deposited copper in solid polymer electrolyte	60 (1993) 79
Azzoni, C.B., P. Camagni, G. Samoggia and A. Paleari, Defect structures and electronic properties in cubic stabilized zirconia	60 (1993) 223
Barbero, C., M.C. Miras, R. Kötz and O. Haas, Probe beam deflection: a useful tool for the study of ion transport in polymers	60 (1993) 167
Batty, S.V., see J.P. Voss	60 (1993) 93
Benraba, D., J.-Y. Sanchez and M. Armand, Synthesis and electrochemical characterization of a new family of lithium salts	60 (1993) 87
Bernson, A. and J. Lindgren, Ion aggregation and morphology for poly(ethylene oxide)-based polymer electrolytes containing rare earth metal salts	60 (1993) 31
Bernson, A. and J. Lindgren, Free ions and ion pairing/clustering in the system LiCF ₃ SO ₃ -PPO _n	60 (1993) 37
Blumenthal, R.N., see M.A. Panhans	60 (1993) 279
Boguslavsky, L., P.D. Hale, L. Geng, T.A. Skotheim and H.-S. Lee, Applications of redox polymers in biosensors	60 (1993) 189
Camagni, P., see C.B. Azzoni	60 (1993) 223
Canaday, J.D., see P.G. Komorowski	60 (1993) 335
Canaday, J.D., see P.G. Komorowski	60 (1993) 343
Careem, M.A., see K. West	60 (1993) 153
Chen, L. and J. Schoonman, MnO thin film cathode for rechargeable microbatteries	60 (1993) 227
Chen, R.S., see M.G. McLin	60 (1993) 137
Dąbrowska, A., see J. Przyłuski	60 (1993) 141
Damasceno, O. de O., see A.L. de Oliveira	60 (1993) 99

Da Silva, C.J., see G. Petersen	60 (1993) 55
De Jonghe, L.C., see S.J. Visco	60 (1993) 175
De Oliveira, A.L., O. de O. Damasceno, P.R. Silva, C.L. Sangiorgi, M. Armand and M. Kleitz, Specific conductivity of lithium perchlorate dissolved in poly(ethylene glycol-400) distearate	60 (1993) 99
Deroo, D., see S. Atchia	60 (1993) 79
Despotuli, A.L. and V.I. Nikolaichik, A step towards nanoionics	60 (1993) 275
Doeff, M.M., see S.J. Visco	60 (1993) 175
Farrington, G.C., see L. Xie	60 (1993) 19
Fontanella, J.J., see Y. Okamoto	60 (1993) 131
Fontanella, J.J., see M.G. McLin	60 (1993) 137
Fujita, T., see R. Tanaka	60 (1993) 119
Geng, L., see L. Boguslavsky	60 (1993) 189
Ghoneimy, H.F., see N.Z. Misak	60 (1993) 305
Ghosh, S. and V. Kalpagam, Protonation of polyaniline and its polyelectrolyte complexes at different ionic strength: contribution of Donnan effect	60 (1993) 149
Gottesfeld, S., see T.A. Zawodzinski Jr.	60 (1993) 199
Granqvist, C.G., Electrochromics and smart windows	60 (1993) 213
Graydon, J., see P.G. Komorowski	60 (1993) 335
Greenbaum, S.G., see Y. Okamoto	60 (1993) 131
Greenbaum, S.G., see M.G. McLin	60 (1993) 137
Haas, O., see C. Barbero	60 (1993) 167
Hale, P.D., see L. Boguslavsky	60 (1993) 189
Hanic, F., see P. Znášik	60 (1993) 313
Hinduliaková, I., see P. Znášik	60 (1993) 313
Hochi, K., see Y. Takebe	60 (1993) 125
Inganäs, O., see Q. Pei	60 (1993) 161
Ivanov, E., K. Suzuki, K. Sumiyama, S.A. Makhlof and H. Yamauchi, Formation of new metastable transition metal alloys by combination of mechanical alloying and chemical leaching	60 (1993) 299
Jacobsson, P., see A. Lundin	60 (1993) 43
Jayakody, J.P., see M.G. McLin	60 (1993) 137
Kalpagam, V., see S. Ghosh	60 (1993) 149
Kleitz, M., see A.L. de Oliveira	60 (1993) 99
Komorowski, P.G., S.A. Argyropoulos, J. Graydon, J.D. Canaday, A.K. Kuriakose, T.A. Wheat, A. Ahmad and P. Taylor, The effect of absorbed water on hydronium NASICON and Hyceram	60 (1993) 335
Komorowski, P.G., S.A. Argyropoulos, J.D. Canaday, A.K. Kuriakose, T.A. Wheat and A. Ahmad, The analysis of protonically exchanged β'' -alumina powder	60 (1993) 343
Kötz, R., see C. Barbero	60 (1993) 167
Kuriakose, A.K., see P.G. Komorowski	60 (1993) 335

Kuriakose, A.K., see P.G. Komorowski	60 (1993) 343
Lampert, C., see S.J. Visco	60 (1993) 175
Latham, R.J., R.G. Linford and R.A.J. Pynenburg, The effect of microwave drying on polymer electrolyte conductivity	60 (1993) 105
Lee, H.-S., see L. Boguslavsky	60 (1993) 189
Lindgren, J., see A. Bernson	60 (1993) 31
Lindgren, J., see A. Bernson	60 (1993) 37
Linford, R.G., see R.J. Latham	60 (1993) 105
Liu, M., see S.J. Visco	60 (1993) 175
Liu, Q., see X. Qiu	60 (1993) 351
Lundin, A. and P. Jacobsson, Effect of high pressure on volume and ion-ion interaction in poly(propylene glycol) complexed with LiCF ₃ SO ₃	60 (1993) 43
Ma, Y.P., see S.J. Visco	60 (1993) 175
Macdonald, J.R. and J.C. Wang, The response of systems with exponential distributions of activation energies for two classes of material temperature behavior	60 (1993) 319
Majling, J., see P. Znášik	60 (1993) 313
Makhlof, S.A., see E. Ivanov	60 (1993) 299
Mani, R., see T. Mani	60 (1993) 113
Mani, T., R. Mani and J.R. Stevens, The physical characteristics of PPG/PMMA/LiCF ₃ SO ₃ polymer electrolyte blends including morphology	60 (1993) 113
McLin, M.G., see Y. Okamoto	60 (1993) 131
McLin, M.G., M.C. Wintersgill, J.J. Fontanella, R.S. Chen, J.P. Jayakody and S.G. Greenbaum, High pressure studies of hydrated NAFION membranes: Dielectric relaxation and deuteron NMR	60 (1993) 137
Mellander, B.-E., see I. Albinsson	60 (1993) 63
Mikhail, E.M., see N.Z. Misak	60 (1993) 305
Miras, M.C., see C. Barbero	60 (1993) 167
Misak, N.Z., H.F. Ghoneimy and E.M. Mikhail, Interdiffusion in alkali ion sorption from mixed solvent solutions on hydrous stannic oxide. III. K ⁺ /H ⁺ exchange and general discussion	60 (1993) 305
Nikolaichik, V.I., see A.L. Despotuli	60 (1993) 275
Nishibayashi, H., see R. Tanaka	60 (1993) 119
Okamoto, Y., Z.S. Xu, M.G. McLin, J.J. Fontanella, Y.S. Pak and S.G. Greenbaum, Synthesis and properties of a cation-conducting, high temperature polymer electrolyte	60 (1993) 131
Pak, Y.S., see Y. Okamoto	60 (1993) 131
Pak, Y.S. and G. Xu, Proton transference number of PFSA ionomer membranes	60 (1993) 347
Paleari, A., see C.B. Azzoni	60 (1993) 223
Panero, S., see G. Petersen	60 (1993) 55
Panhans, M.A. and R.N. Blumenthal, A thermodynamic and electrical conductivity study of nonstoichiometric cerium dioxide	60 (1993) 279
Patel, J.P., see J.P. Voss	60 (1993) 93
Pei, Q. and O. Inganäs, Electrochemical applications of the bending beam method; a novel way to study ion transport in electroactive polymers	60 (1993) 161

Petersen, G., L.M. Torell, S. Panero, B. Scrosati, C.J. da Silva and M. Smith, Ionic interactions in MCF_3SO_3 -polyether complexes containing mono-, di- and trivalent cations	60 (1993) 55
Petit, J.P., see S. Atchia	60 (1993) 79
Przyłuski, J., A. Dąbrowska, S. Stys and W. Wieczorek, Ambient temperature proton polymeric electrolytes based on poly(ethylene oxide)-poly(methyl methacrylate) blends	60 (1993) 141
Pynenburg, R.A.J., see R.J. Latham	60 (1993) 105
Qiu, X., Q. Liu and L. Yang, The processes of lithium ions intercalating into benzene pyrolytic decomposition carbon	60 (1993) 351
Rosman, N., see S. Atchia	60 (1993) 79
Safari, A., see G.G. Amatucci	60 (1993) 357
Saito, M. and S. Tamaki, Disordered distribution of cations in the solid solution of the $\text{AgBr}-\text{CuBr}$ system	60 (1993) 237
Saito, S., see R. Tanaka	60 (1993) 119
Samoggia, G., see C.B. Azzoni	60 (1993) 223
Sanchez, J.-Y., see F. Alloin	60 (1993) 3
Sanchez, J.-Y., see D. Benrabah	60 (1993) 87
Sangiorgi, C.L., see A.L. de Oliveira	60 (1993) 99
Schantz, S. and L.M. Torell, Evidence of dissolved ions and ion pairs in dilute poly(propylene oxide)-salt solutions	60 (1993) 47
Schoonman, J., see L. Chen	60 (1993) 227
Scrosati, B., see G. Petersen	60 (1993) 55
Secco, E.A., Paddle-wheel versus percolation model	60 (1993) 233
Shi, J. and C.A. Vincent, The effect of molecular weight on cation mobility in polymer electrolytes	60 (1993) 11
Shirota, Y., see Y. Takebe	60 (1993) 125
Shokoohi, F.K., see G.G. Amatucci	60 (1993) 357
Siekierski, M. and W. Wieczorek, Application of the "universal power law" to the studies of ac conductivity of polymeric electrolytes	60 (1993) 67
Silva, C.J., see M.J. Smith	60 (1993) 73
Silva, M.M., see M.J. Smith	60 (1993) 73
Silva, P.R., see A.L. de Oliveira	60 (1993) 99
Skaarup, S., see K. West	60 (1993) 153
Skotheim, T.A., see L. Boguslavsky	60 (1993) 189
Smith, M., see G. Petersen	60 (1993) 55
Smith, M.J., C.J. Silva and M.M. Silva, The study of a lanthanum triflate based polymer electrolyte using electrochemical and thermal techniques	60 (1993) 73
Springer, T.E., see T.A. Zawodzinski Jr.	60 (1993) 199
Stevens, J.R., see I. Albinsson	60 (1993) 63
Stevens, J.R., see T. Mani	60 (1993) 113
Stys, S., see J. Przyłuski	60 (1993) 141
Sumiyama, K., see E. Ivanov	60 (1993) 299
Suzuki, K., see E. Ivanov	60 (1993) 299
Takebe, Y., K. Hoshi and Y. Shirota, Ionic conductivities of hybrid films composed of comb polymers containing esters as pendant groups and lithium trifluoromethane sulfonate	60 (1993) 125

Tamaki, S., see M. Saito	60 (1993) 237
Tanaka, R., T. Fujita, H. Nishibayashi and S. Saito, Ionic conduction in poly(ethylenimine)- and poly(N-methylethylenimine)-lithium salt systems	60 (1993) 119
Taylor, P., see P.G. Komorowski	60 (1993) 335
Torell, L.M., see S. Schantz	60 (1993) 47
Torell, L.M., see G. Petersen	60 (1993) 55
Uribe, F., see T.A. Zawodzinski Jr.	60 (1993) 199
Vincent, C.A., see J. Shi	60 (1993) 11
Visco, S.J., M. Liu, M.M. Doeffer, Y.P. Ma, C. Lampert and L.C. de Jonghe, Polyorganodisulfide electrodes for solid-state batteries and electrochromic devices	60 (1993) 175
Voss, J.P., S.V. Batty, J.P. Patel and P.V. Wright, Conductivities of poly(ethylene oxide)-alkali salts with aromatic and heterocyclic anions	60 (1993) 93
Wang, J.C., see J.R. Macdonald	60 (1993) 319
West, K., M.A. Careem and S. Skaarup, An impedance study of the doping of polypyrrole in LiClO ₄ /PC	60 (1993) 153
Wheat, T.A., see P.G. Komorowski	60 (1993) 335
Wheat, T.A., see P.G. Komorowski	60 (1993) 343
Wieczorek, W., see M. Siekierski	60 (1993) 67
Wieczorek, W., see J. Przyłuski	60 (1993) 141
Wilkens, B.J., see G.G. Amatucci	60 (1993) 357
Wintersgill, M.C., see M.G. McLin	60 (1993) 137
Wright, P.V., see J.P. Voss	60 (1993) 93
Xie, L. and G.C. Farrington, Application of molecular modeling to the study of polymer electrolytes	60 (1993) 19
Xu, G., see Y.S. Pak	60 (1993) 347
Xu, Z.S., see Y. Okamoto	60 (1993) 131
Yamauchi, H., see E. Ivanov	60 (1993) 299
Yang, L., see X. Qiu	60 (1993) 351
Zawodzinski Jr., T.A., T.E. Springer, F. Uribe and S. Gottesfeld, Characterization of polymer electrolytes for fuel cell applications	60 (1993) 199
Znášik, P., I. Hinduliaková, J. Majling and F. Hanic, Ionic conductivity of crystalline and glassy Mg _{4.5} Na ₇ (P ₂ O ₇) ₄	60 (1993) 313



Subject Index to Volume 60

- Activation volume, 137
AgBr–CuBr system, 237
Alloys, 299
Amorphous, 125
- β'' -alumina, 343
Bending beam method, 161
Biosensor, 189
Blends, 113
Bulk modulus, 43
- Carbon anode, 351
Cation mobility, 11
Cerium dioxide, 279
Charge distribution, 19
Chemical analysis, 343
Cholesterol sensor, 189
Comb polymer, 125
Complexes, 87
Complex impedance, 313
Computer simulation, 19
Conducting polymers, 153, 167
Conductivity, 63, 67, 93, 105, 141
Copolymer, 3
Copper iodide complexes, 79
Crystal structure, 313
- De Gennes, 11
Diffusion, 153
mechanism, 233
Diffusion coefficient, 11, 167, 305
Dilute solutions, 47
Dissolved ions, 47
Donnan effect, 149
- Electrical conductivity, 137, 237
Electroactive polymers, 161
Electrochromic devices, 175
Electrodeposition, 79
Electrodissolution, 79
Electron-beam
evaporation, 357
lithography, 275
Electron diffraction, 227
Enzyme electrodes, 189
EPR, 223
Ester, 125
- Film, 227
FTIR, 31, 37
Fuel cell, 141, 199
- Glass, 313
Glucose sensor, 189
- High pressure, 137
High temperature polymer electrolyte, 131
Humidity effects, 335
- Impedance spectroscopy, 67, 141, 153, 319
Interfacial resistance, 141
Ion exchange, 167, 305, 343
Ionic association, 55, 63
Ionic conductivity, 63, 67, 119, 125, 313
lithium, 131, 357
oxygen, 279
proton, 335
sodium, 131
Ion–ion interaction, 19, 43
Ion pairs, 47
Ion–polymer interaction, 19
Ion transport, 161, 237
- Lithium battery, 227, 351, 357
Lithium conductor, 131
Lithium perchlorate conductivity, 99
Lithium salt, 119
Lithium scandium phosphate, 357
Lithium sulfate, 233
Lithium triflate, 37, 113
- Manganous oxide, 227
Mechanical synthesis, 299
Membrane transport, 199
Microwave drying, 105
Morphology, 113
Multivalency, 55
Multivalent cation-based system, 73
- NAFION, 137, 199, 347
NASICON, 335
Networks, 3
Neurotransmitter sensor, 189
New salts, 87
NMR, 11
 T_1 measurements, 137

- Optical absorption, 223
Organo-alkali complexes, 93

Paddle wheel, 233
Paramagnet, 299
PEFC, 199
Percolation, 233
Permittivity, 63
Polyaniline, 149
Polycondensate, 3
Polyether, 3
Poly(ethylene glycol-400) distearate, 99
Poly(ethyleneimine), 119
Poly(ethylene oxide) (PEO), 31, 93, 175
Polymer, 347
Polymer blends, 141
Polymer electrolyte, 3, 11, 19, 43, 55, 63, 67, 73, 79, 87, 105, 113, 119, 141, 149, 175, 199
Polymeric ionic conductor, 99
Polymeric mediators, 189
Poly(methyl methacrylate), 113
Poly(N-methylethylenimine), 119
Polyorganodisulfide electrodes, 175
Poly(oxyethylene) (POE), 87
Poly(propylene glycol) (PPG), 63, 113
Poly(propylene oxide) (PPO), 37, 47
Polypyrrole, 153, 161
Pressure dependence, 43
Probe beam deflection, 167

Protonation, 149
Pseudo-equilibrium phase diagram, 73
Pyrolytic carbon, 351

Raman scattering, 43, 47, 55
Raman spectroscopy, 79
Rare-earth triflate, 31
Response
 conductive, 319
 dielectric, 319
Rouse-Zimm, 11

Sodium conductor, 131
Solid electrolytes, 275

Thermodynamics, 279
Tin oxide, 305
Transference number, 347

Universal power law, 67

Volume changes in conducting polymers, 161

XUS polymer, 347

Yttria-stabilized zirconia (YSZ), 223